CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.15/CSR-04/626c/Cube/2018-19 30.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2018	30.05.2018	8.099	483.5	21.49
2	02.05.2018	30.05.2018	8.198	511.6	22.74
3	02.05.2018	30.05.2018	8.293	522.7	23.23

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/KM/W.No.15/CSR-04/626c/Cube/2018-19

01.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2018	01.06.2018	8.290	483.5	21.49
2	04.05.2018	01.06.2018	8.337	492.6	21.89
3	04.05.2018	01.06.2018	8.418	513.2	22.81

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* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2018	01.06.2018	8.150	499.6	22.20
2	04.05.2018	01.06.2018	8.356	524.5	23.31
3	04.05.2018	01.06.2018	8.295	539.8	23.99

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.05.2018	01.06.2018	8.117	478.5	21.27
2	04.05.2018	01.06.2018	8.229	505.6	22.47
3	04.05.2018	01.06.2018	8.339	511.9	22.75

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Job No.: CTCE/BBMP/KM/W.No.15/WMM/Gradation/2018-19 08.05.2018

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work		Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	08.05.2018

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	135	135	2.7	97.3	95-100
22.4	1325	1460	29.20	70.80	60-80
11.2	1235	2695	53.90	46.10	40-60
4.75	585	3280	65.60	34.40	25-40
2.36	510	3790	75.80	24.20	15-30
0.600	515	4305	86.10	13.90	8-22
0.075	380	4685	93.70	6.30	0-8

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Job No.: CTCE/BBMP/KM/W.No.15/CSR-04/626c/CEMENT/2018-19 Date: 23.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Cement
Sample Received on	:	21.03.2018
Period of Testing	:	21.03.2018 to 23.04.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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Job No.: CTCE/BBMP/KM/W.No.15/WMM/AIV/2018-19 08.05.2018

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	08.05.2018

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	79	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	20.79	21.20	**21.00**

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/KM/W.No.15/WMM/Shape.T/2018-19 08.05.2018

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2011)
Date of Testing	:	08.05.2018

Sl.No.	Description	Result
1	Flakiness Index	12.16%
2	Elongation Index	13.25%
3	Combined Flakiness & Elongation Index	25.41%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2018	11.06.2018	8.159	711.6	31.63
2	14.05.2018	11.06.2018	8.262	723.3	32.15
3	14.05.2018	11.06.2018	8.336	738.5	32.82

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Sample Received on	:	11.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2018	11.06.2018	8.117	723.3	32.15
2	14.05.2018	11.06.2018	8.229	735.4	32.68
3	14.05.2018	11.06.2018	8.320	743.2	33.03

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.15/CSR-04/626c/Cube/2018-19 11.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2018	11.06.2018	8.122	711.6	31.63
2	14.05.2018	11.06.2018	8.263	719.6	31.98
3	14.05.2018	11.06.2018	8.324	723.3	32.15

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K,
Technical Manager

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2018	11.06.2018	8.227	485.6	21.58
2	14.05.2018	11.06.2018	8.339	495.4	22.02
3	14.05.2018	11.06.2018	8.405	502.3	22.32

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* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2018	11.06.2018	8.118	723.3	32.15
2	14.05.2018	11.06.2018	8.229	733.8	32.61
3	14.05.2018	11.06.2018	8.330	745.6	33.14

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Job No: CTCE/BBMP/KM/W.No.15/CSR-04/626c/SAND-Gradation/2018-19

23.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	21.04.2018
Date of Testing	:	23.04.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	83.50	60-95	75-100	85-100	95-100
1.18	63.20	30-70	55-90	75-100	90-100
600 Micron	41.20	15-34	35-59	60-79	80-100
300 Micron	22.70	5-20	8-30	12-40	15-50
150 Micron	7.50	0-10	0-10	0-10	0-15

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* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KM/W.No.15/CSR-04/626c/AGG/GR/2018-19 23.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	21.04.2018
Date of Testing	:	23.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.36	95-100	85-100
20	38.90	30-70	0-20
10	17.90	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KM/W.No.15/Steel/2018-19 25.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Samples ID	:	8 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	25.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	518	559	13.15	O.K	O.K

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Job No.: CTCE/BBMP/KM/W.No.15/Steel/2018-19 25.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of work	:	Providing and construction of CC road at Somanatha bus building road and cross road at description in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/WO/280/2017-18 Dated: 14.03.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	25.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	522	564	13.35	O.K	O.K

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